4 - R10-3(1)

HOT MIX ASPHALT SUPERPAVE 25.0MM FOR FULL DEPTH PATCH, PG64-22, LEVEL-2 5 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS 12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES

AUDIBLE / TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGN
REMOVAL AND DISPOSAL OF EXISTING TRAFFIC SIGNAL MATERIALS AND EQUIPMENT
8 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION

STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 10 INCH DEPTH

24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES

1 - D-3(1) (DUAL FACE) 96"X16"

9"X15"

### INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA FOUR-PHASE FULL-TRAFFIC-ACTUATED MODE WITH AN ALTERNATE PEDESTRIAN PHASE FOR THE NORTH LEG AND CONCURRENT PEDESTRIAN PHASE FOR THE WEST LEG OF THE INTERSECTION. THE MD 197 NORTHBOUND LEFT TURN OPERATE IN EXCLUSIVE-PERMISSIVE PHASING.

# CONTROLLER REQUIREMENTS

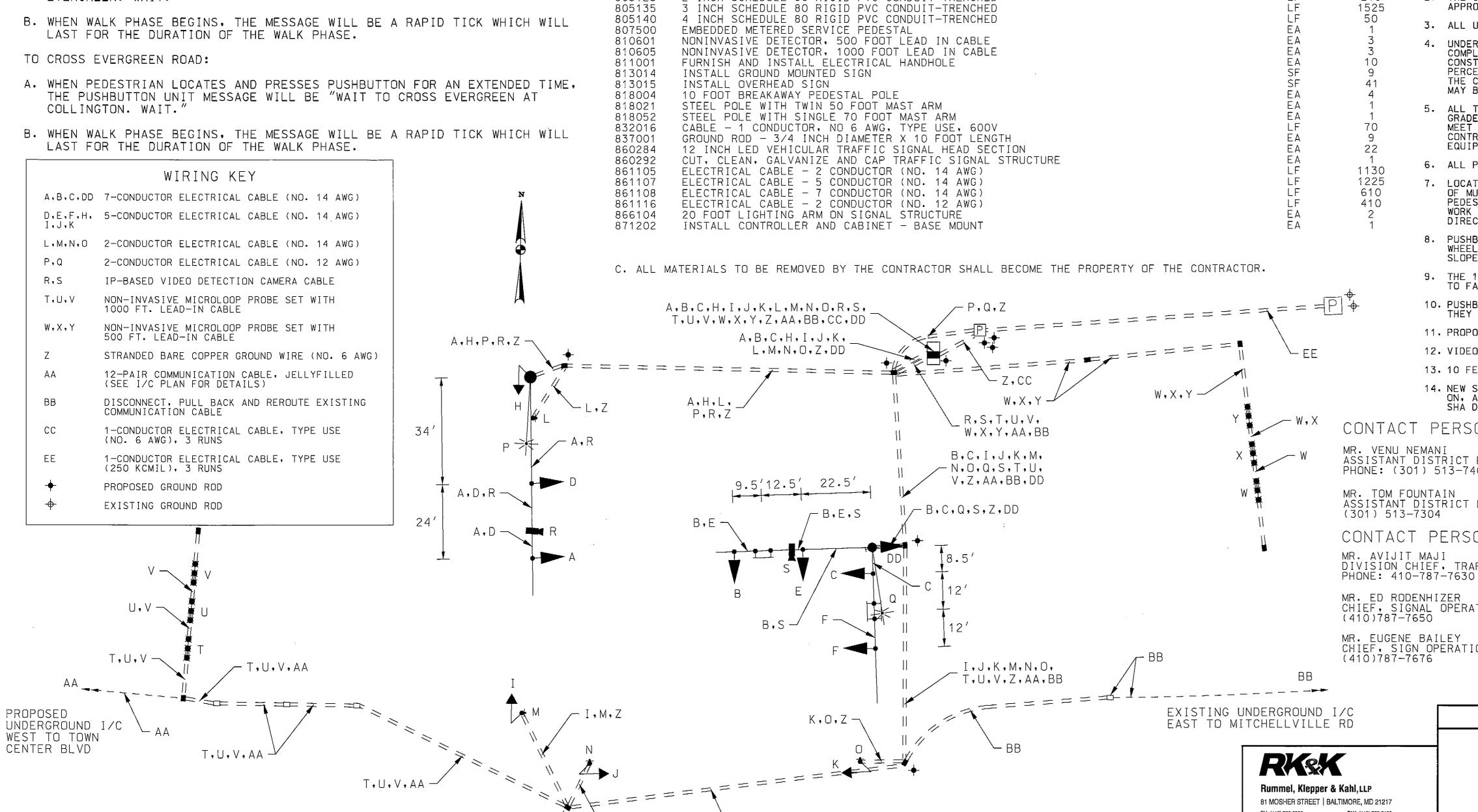
A FULL-TRAFFIC-ACTUATED EIGHT-PHASE TRAFFIC SIGNAL CONTROLLER HOUSED IN A BASE MOUNTED CABINET WITH TELEMETRY CABLE SHALL BE FURNISHED BY SHA AND INSTALLED BY THE CONTRACTOR. A 2-WIRE APS CENTRAL CONTROL UNIT SHALL BE FURNISHED BY THE CONTRACTOR AND INSTALLED BY SHA. IP-BASED VIDEO DETECTION INTERFACE EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY SHA.

## SPECIAL NOTES

#### APS WILL FUNCTION AS FOLLOWS:

TO CROSS MD 197 (COLLINGTON ROAD):

A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT MESSAGE WILL BE "WAIT TO CROSS COLLINGTON AT EVERGREEN. WAIT."



I, J, M, N, T, U, V, Z, AA

A. EQUIPMENT TO BE SUPPLIED BY SHA.

1 - M1 - 5(4)

TEST PIT EXCAVATION

5 INCH CONCRETE SIDEWALK

LED ROADWAY LUMINAIRE

2-WIRE APS CENTRAL CONTROL UNIT

CONCRETE FOR SIGNAL FOUNDATION

DISCONNECT, PULLBACK & REROUTE CABLE

4 CHANNEL DETECTOR AMPLIFIER

1 - R4-7

DESCRIPTION

DESCRIPTION

SHEET ALUMINUM MAST ARM / POLE MOUNTED SIGN

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

DETECTABLE WARNING SURFACE FOR CURB RAMPS

IP-BASED VIDEO DETECTION CAMERA AND CABLE

NO. 6 AWG STRANDED BARE COPPER GROUND WIRE

3 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED

4 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED

2 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED

16 INCH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD

CABLE - 1 CONDUCTOR, 250 KCMIL, TYPE USE, 600V

CONTROLLER CABINET, SIZE "S" W/CTRL, VIDEO INT, 1-8 CAM

78"X36"

24"X30"

ITEM NO.

ITEM NO.

203030

504428

585405 585621

655120

000008

801004

802501

805115

805118

900000

2 3 4 5 6 7 8 9 10 11 R Y G G RYG R Y G MD 197 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION PHASE 2 AND 5 |DW|DW|DW|**⊲**---R | 5 CHANGE DW DW DW DW PHASE 2 AND 6 DW DW WK WK PED CLEARANCE DW DW FL/DWFL/DW R 2 AND 6 CHANGE DW DW DW I DW R | R | R | G PHASE 4 G | DW | DW | DW | DW Υ 4 CHANGE PHASE 4 ALT G WK | WK | DW | DW PED CLEARANCE  $R \mid R \mid R$ G G DW ||FL/DW|FL/DW||DW||

#### GENERAL NOTES

R

EL/Y|FL/Y|FL/Y|FL/Y|FL/Y|FL/R|FL/R|DARK|DARK|DARK|DARK|

DW

1. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.

RR

- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABELING EACH CABLE.
- 3. ALL UNUSED CABLE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.

R

- UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING "MISS UTILITY" PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT
- 5. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- 6. ALL PEDESTAL FOUNDATION TOPS SHALL BE INSTALLED FLUSH WITH SIDEWALK GRADE.
- 7. LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SECTION 4E.09 AND FIGURE 4E.2 AND THE NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE." IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNTIL A DESIGN WAIVER IS OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
- PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18" FROM A 60" X 60" LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
- 9. THE 10' SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON. NOT CENTER OF POLE TO CENTER OF POLE.
- 10. PUSHBUTTON ARROWS AND SIGNS ARE TO BE ORIENTED PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
- 11. PROPOSED LUMINAIRES SHALL BE SUPPLIED WITH A PHOTOCELL.
- 12. VIDEO CAMERA LOCATIONS/ALIGNMENT SHALL BE COORDINATED WITH THE SHA ENGINEER.
- 13, 10 FEET OF SLACK SHALL BE PROVIDED IN EACH HANDHOLE FOR INTERCONNECT CABLE.
- 14. NEW SIGNAL WARNING SIGN ASSEMBLIES SHALL BE REMOVED 90 TO 120 DAYS AFTER SIGNAL TURN ON, AT WHICH TIME THE APPROPRIATE ADVANCED STREET NAME SIGNS SHALL BE INSTALLED BY SHA DISTRICT #3.

CONTACT PERSONS FOR DISTRICT #3 ARE AS FOLLOWS:

ASSISTANT DISTRICT ENGINEER-TRAFFIC PHONE: (301) 513-7404

MR. DUANE BERNARD ASSISTANT DISTRICT ENGINEER-CONSTRUCTION (301) 513-7336

MR. TOM FOUNTAIN ASSISTANT DISTRICT ENGINEER-MAINTENANCE (301) 513-7304

CONTACT PERSONS FOR OOTS ARE AS FOLLOWS:

MR. AVIJIT MAJI DIVISION CHIEF, TRAFFIC OPERATIONS

MR. ROBERT SNYDER ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS (410)787-7630

MR. ED RODENHIZER CHIEF, SIGNAL OPERATIONS (410)787-7650

QUANTITY

50

QUANTITY

11 30 365

130 286

1121

1100

1650

10

1870

135

285

215

4 ALT CHANGE

FLASHING

OPERATION

UNIT

EA SF

EΑ

UNIT

CY TON LF LF

MR. EUGENE BAILEY CHIEF, SIGN OPERATIONS (410)787-7676

PH: (410) 728-2900

Engineers Construction Managers Planners Scientists

www.rkk.com

STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION MD 197 (COLLINGTON ROAD) AT EVERGREEN PARKWAY

BOWIE, MARYLAND GENERAL INFORMATION SHEET REVISIONS

SCALE 1"=20' DATE NOVEMBER 2012 CONTRACT NO. PG7865277 COUNTY PRINCE GEORGE'S DESIGNED BY WFW DRAWN BY WFW LOGMILE 16019700.72 TIMS NO.\_ CHECKED BY L229 FAP NO. TOD NO. SP-2 OF TS NO. 4860-G DRAWING SHEET NO.

PLOTTED: Monday, December 17, 2012 AT 03:10 PM FILE: \rikkm\v2008\2008\08148\_tcddes\Task 88\_MD 197 at Evergreen\CADD\pSG-0002\_MD197@Evergreen-Gl.dgn